

FIG. 1

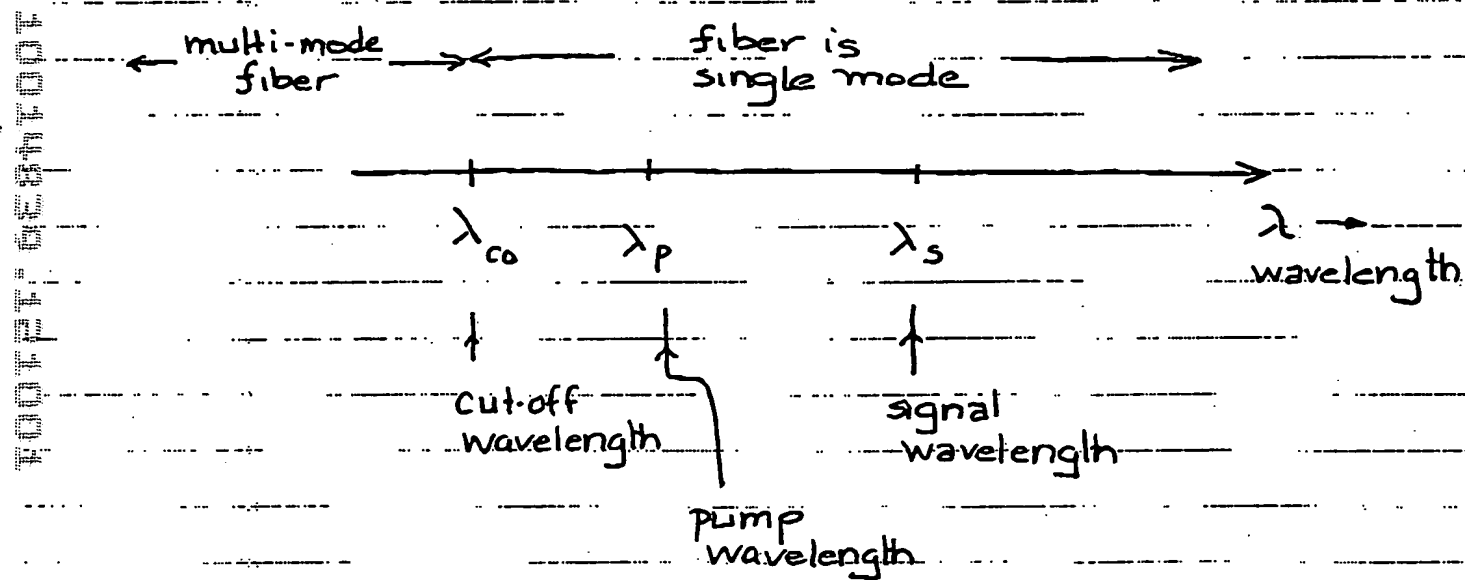


FIG. 2

FOOT-684001

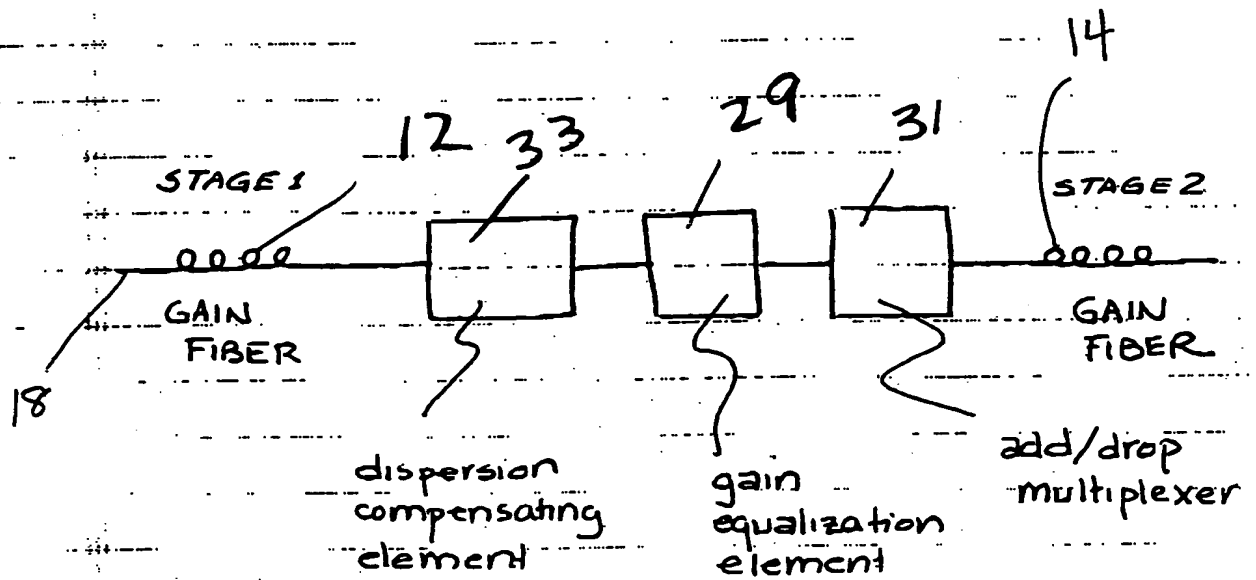


FIG. 3

100121 66347007

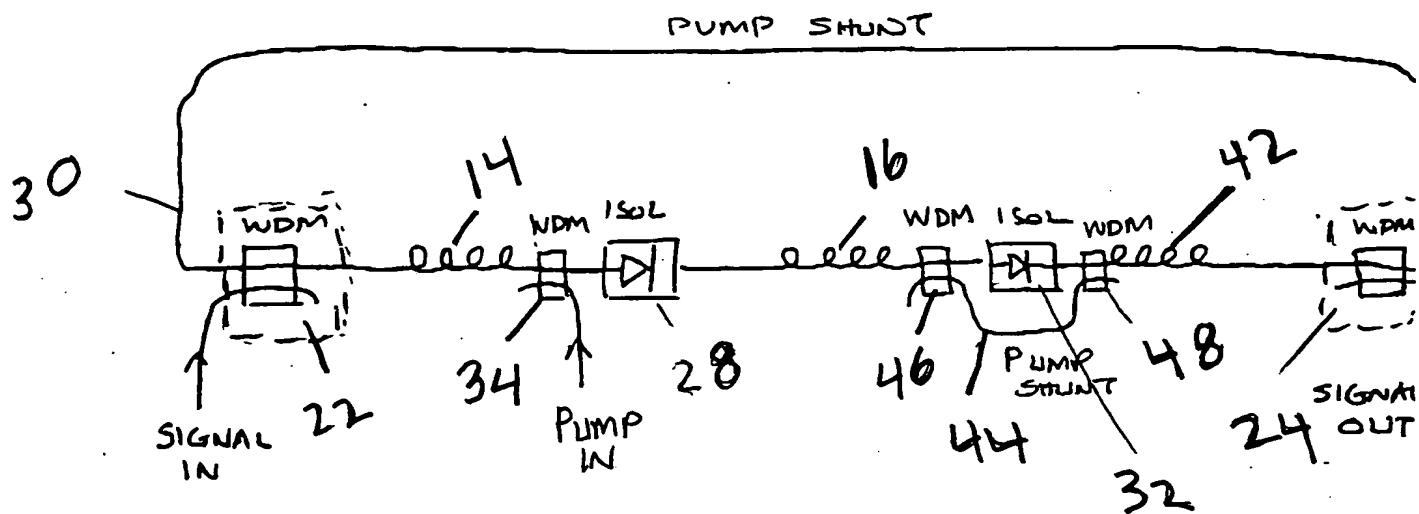


FIG. 4

FIG. 5

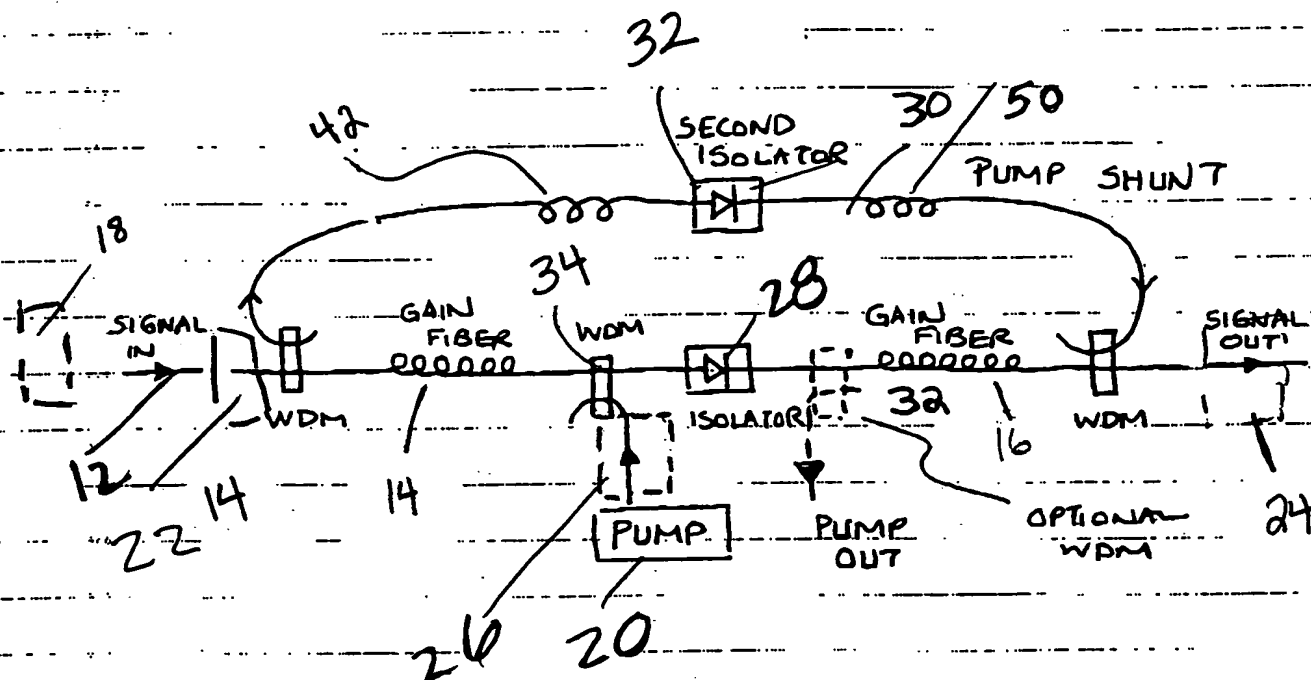


FIG. 5

**LEONARD BLOOM**

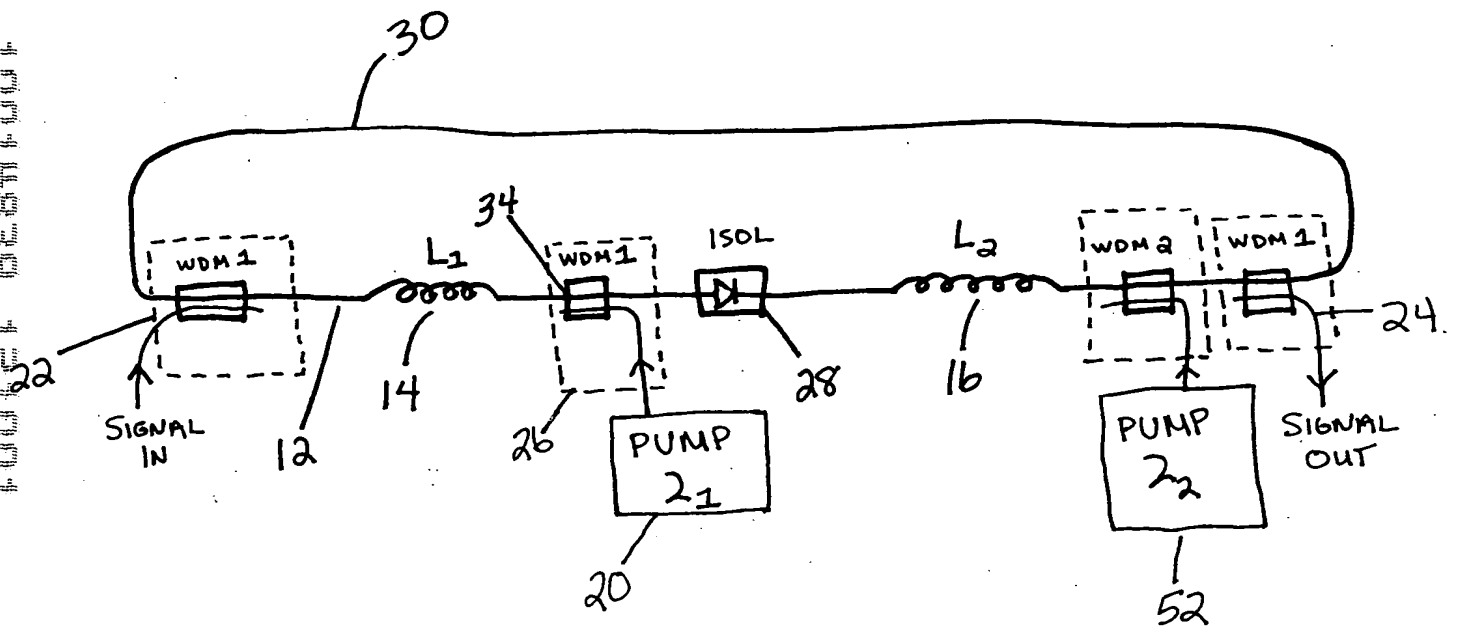


FIG. 6

**THE UNIVERSITY OF CHICAGO**

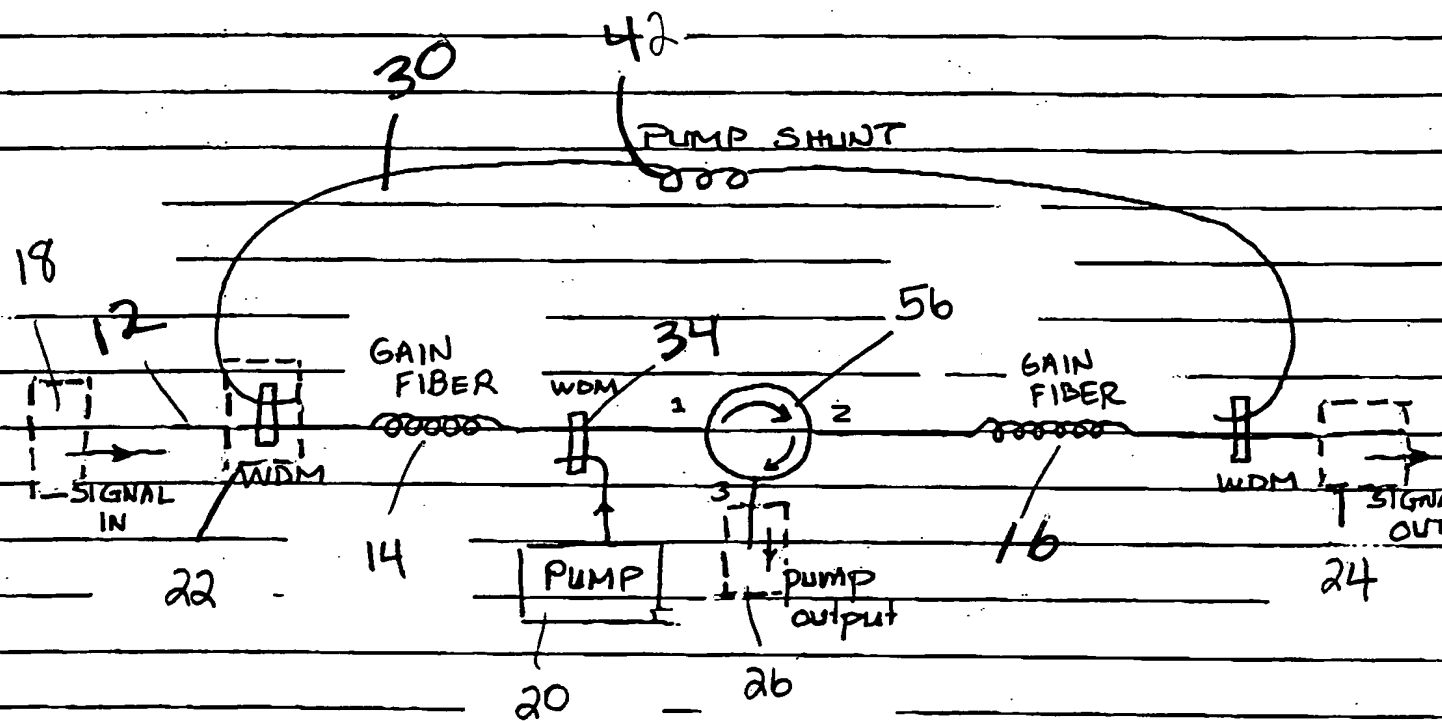


FIG. 7

FOOT 664T00T

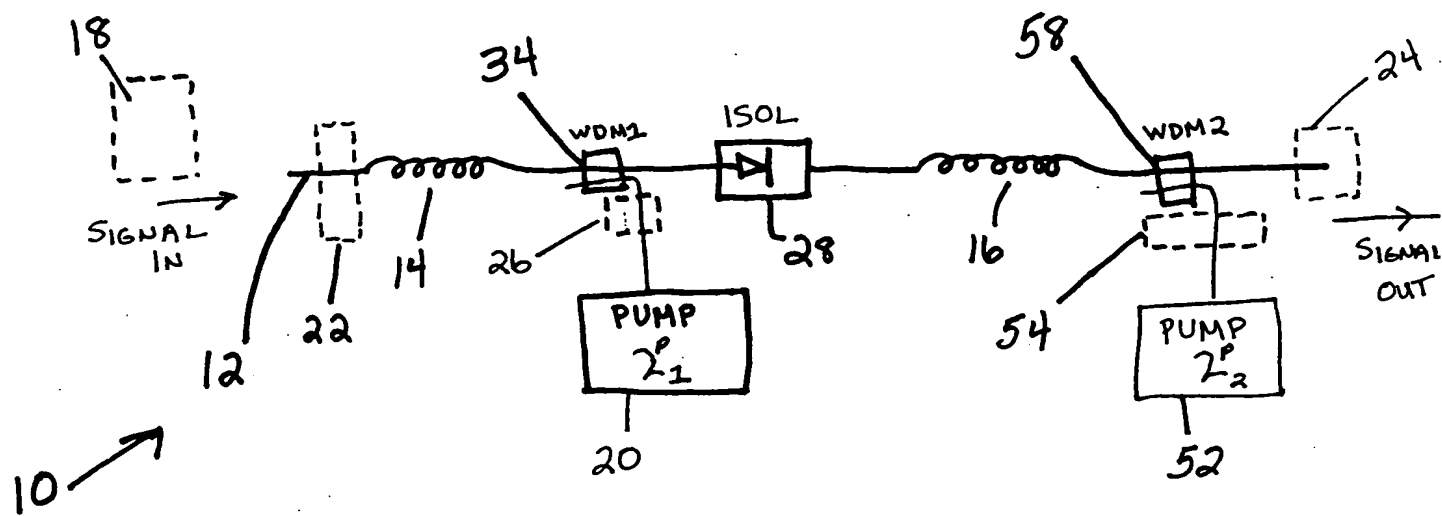


FIG. 8



FIG. 8b

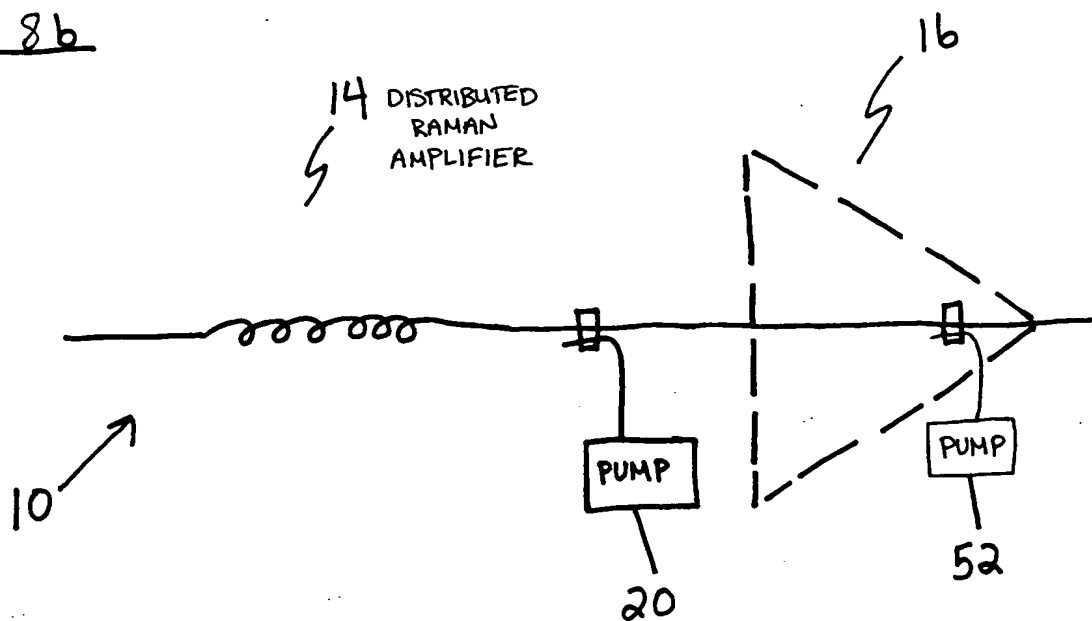


FIG. 8c

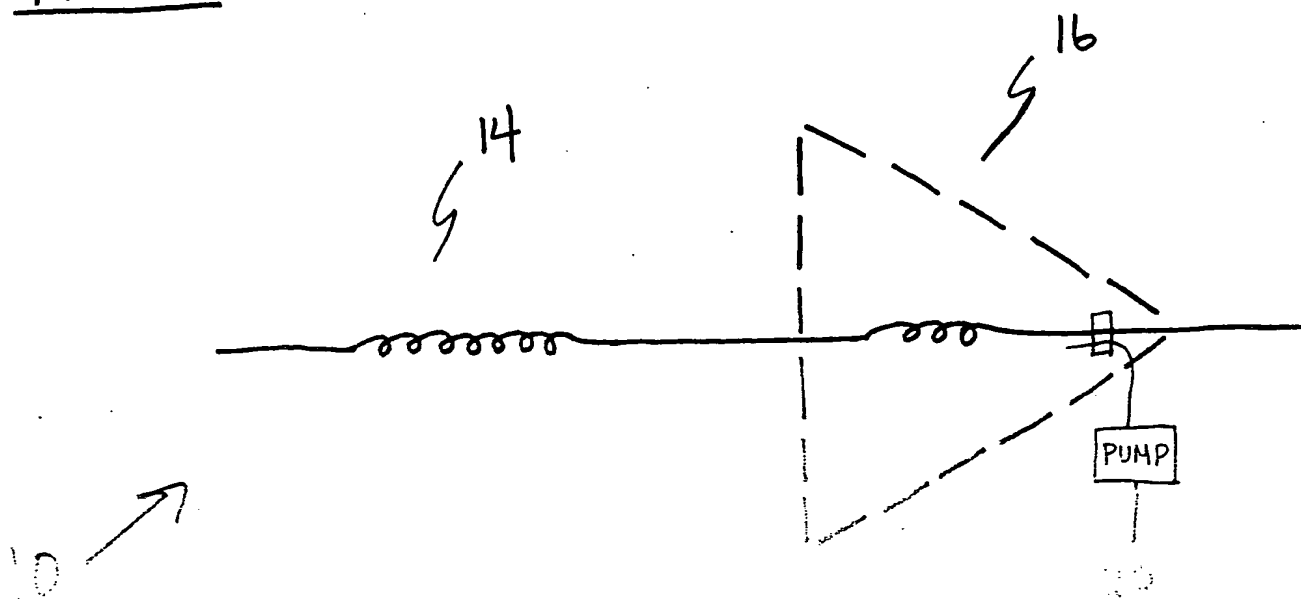


FIG. 9

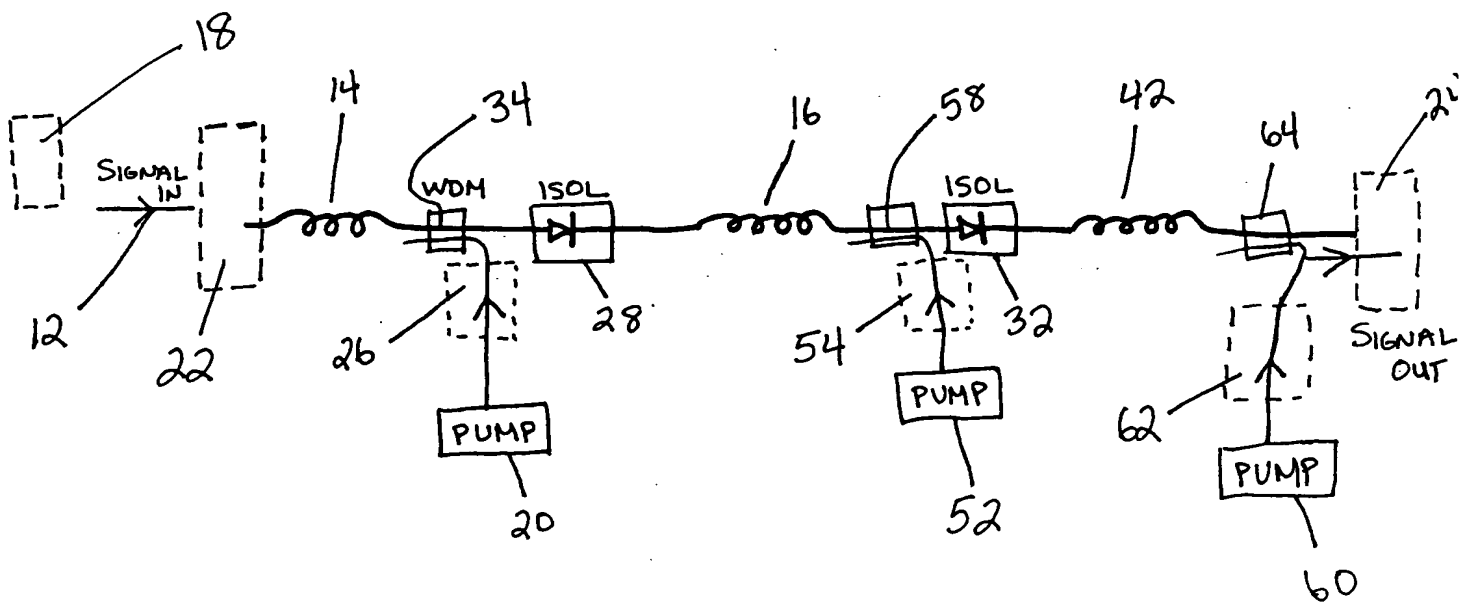


FIG. 9

FIG. 10

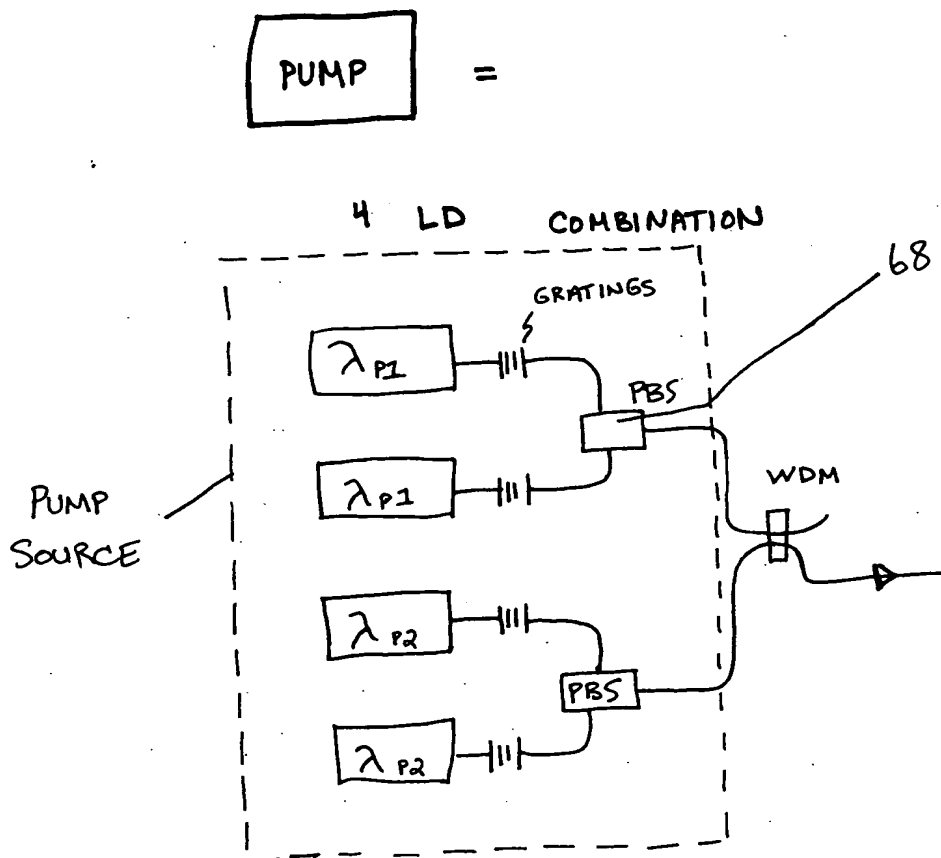


FIG. 10

# 8 LD COMBINATION

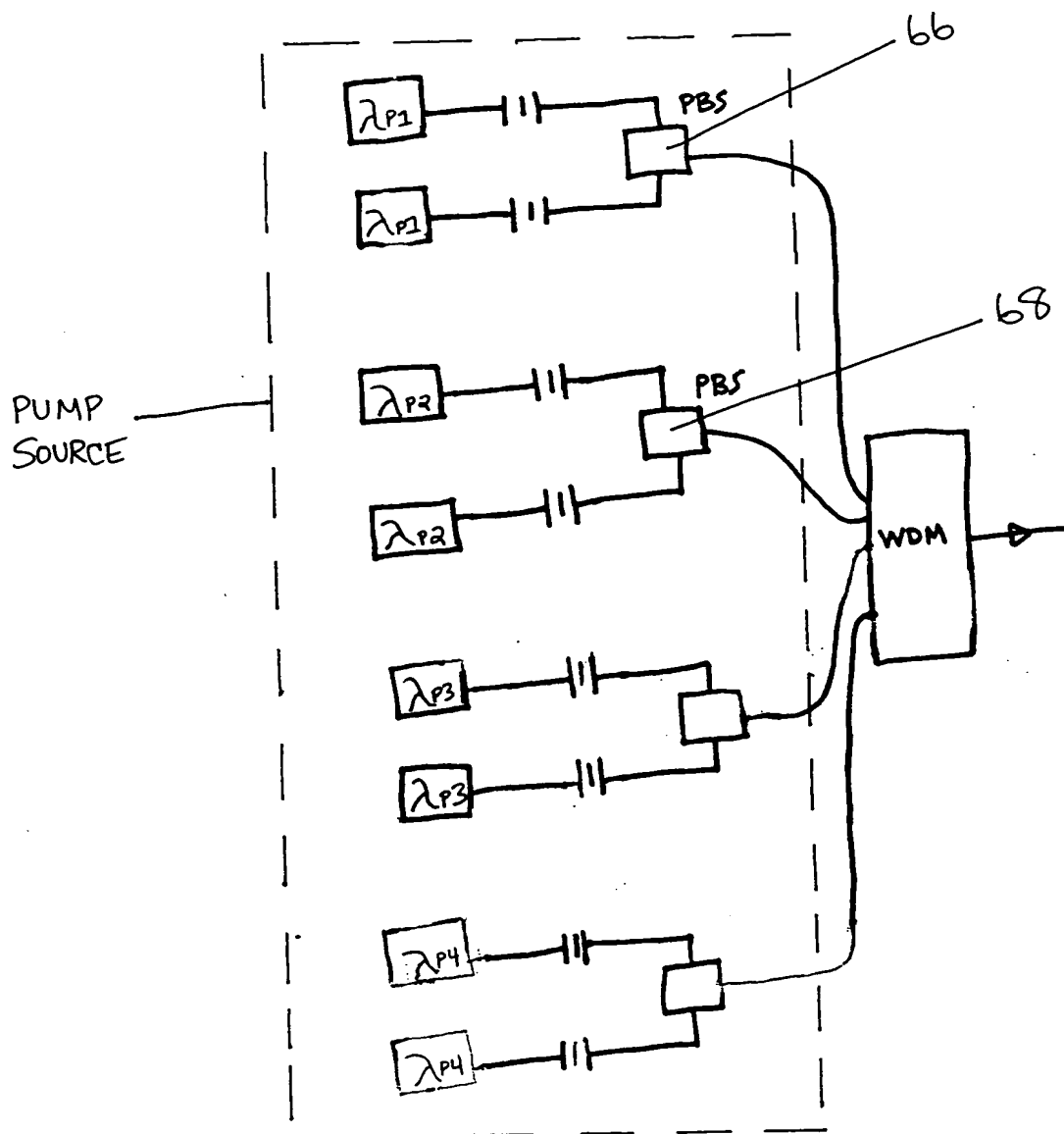


FIG. 11

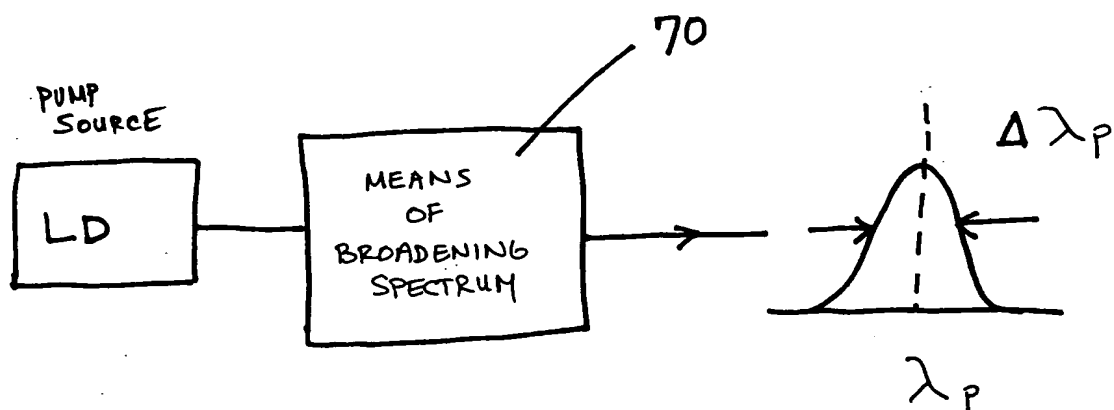


FIG. 12

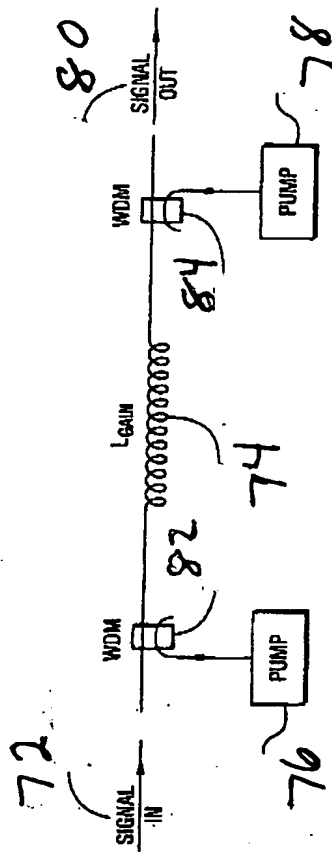
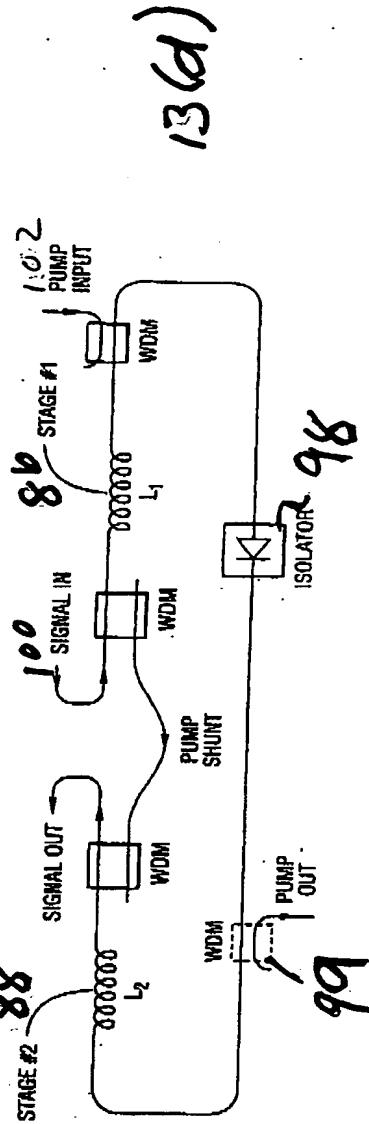
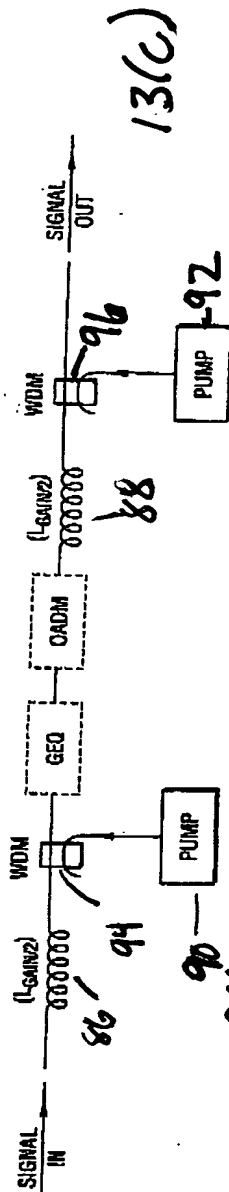
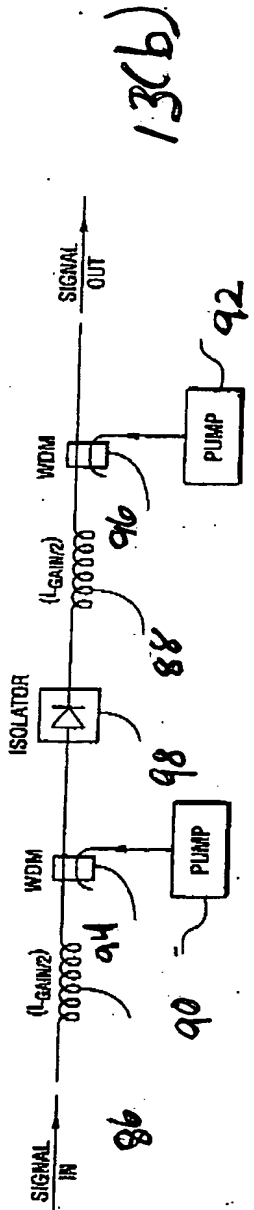


Fig 13(a)



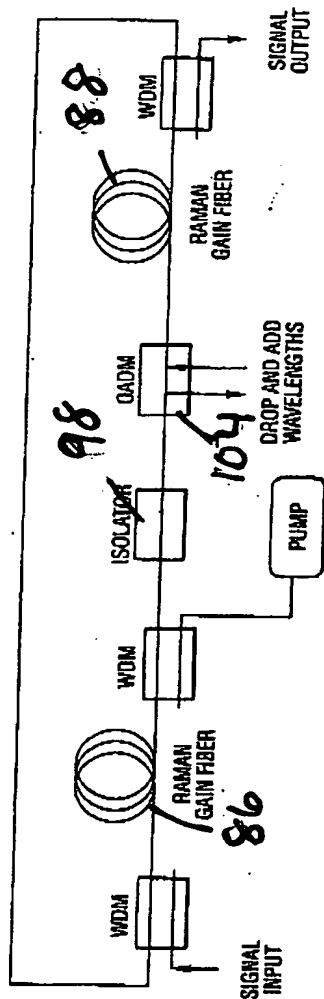


Fig 13(a)

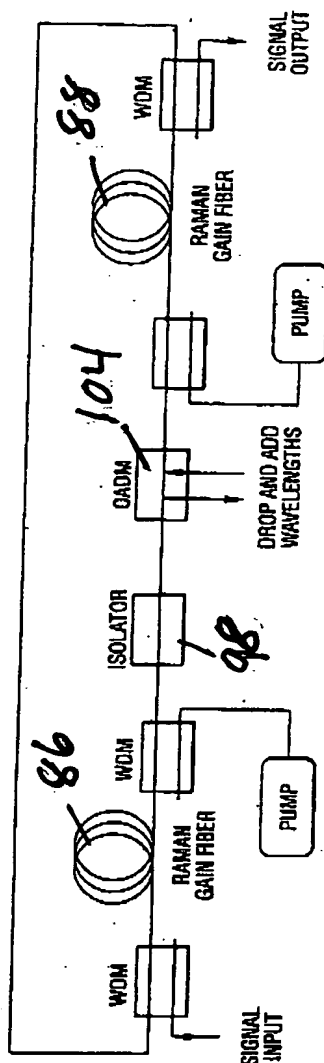
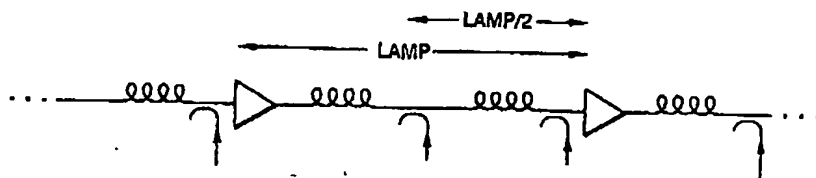


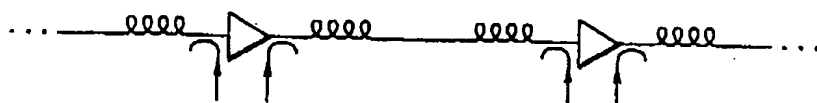
Fig 13(b)





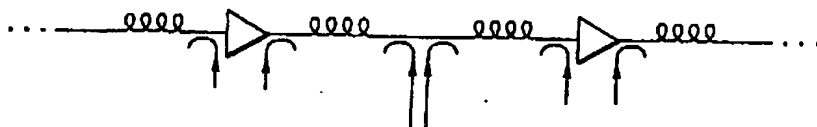
PUMPS

Fig 14(a)



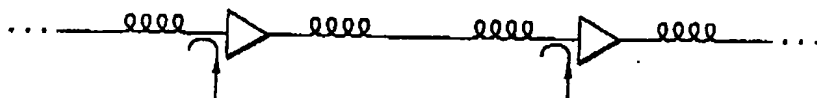
PUMPS

Fig 14(b)



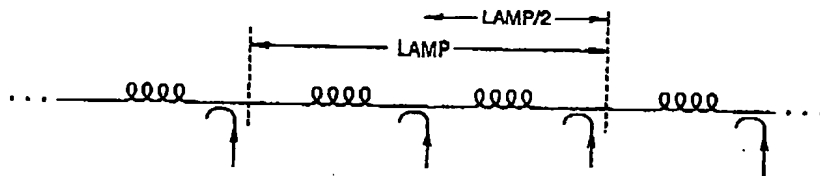
PUMPS

Fig 14(c)



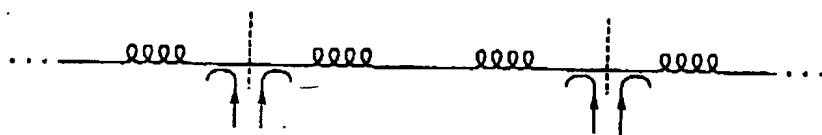
PUMPS

Fig 14(d)



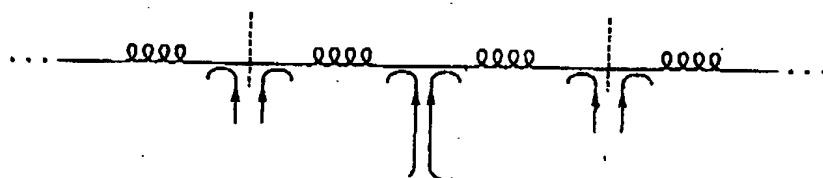
PUMPS

Fig 15(a)



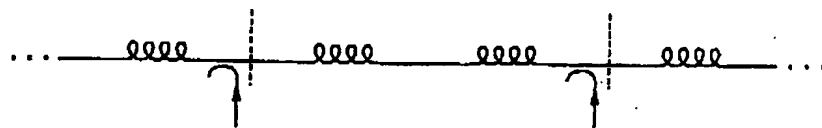
PUMPS

Fig. 15(b)



PUMPS

Fig. 15(c)



PUMPS

Fig. 15(d)



FOOT-5E84T00F

106

112 110

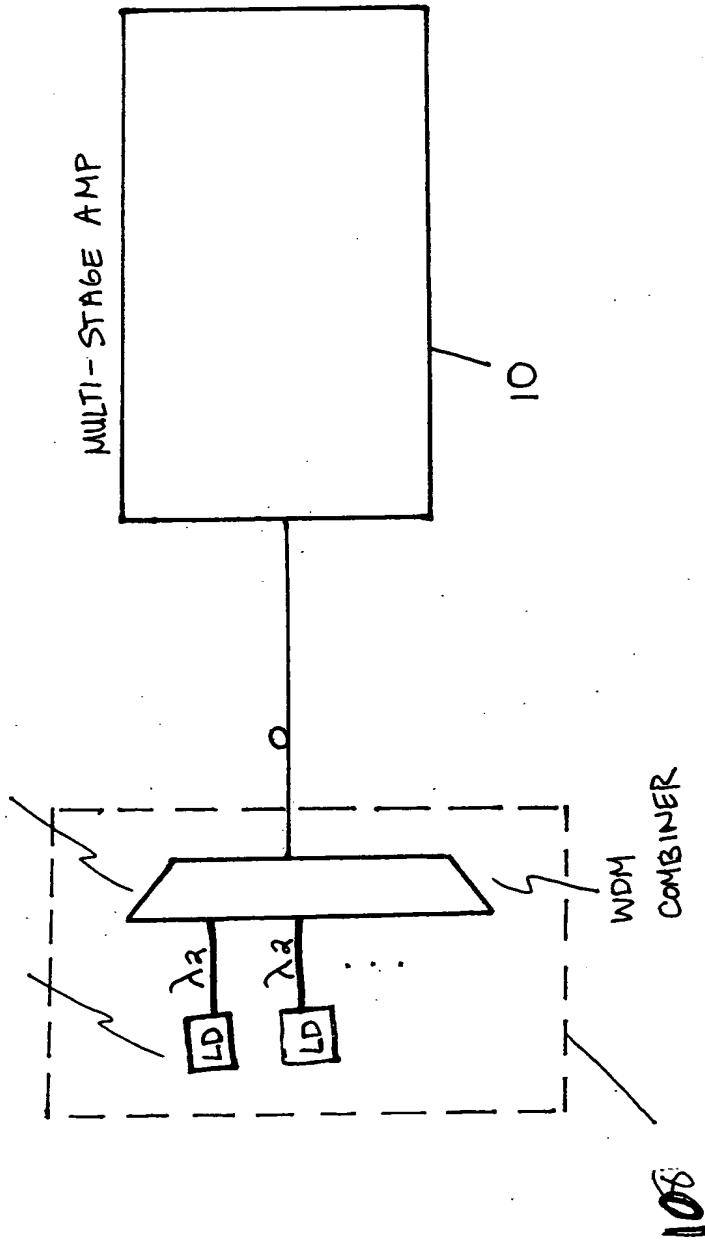


FIG. 1b

FOOT-GEETHOOT

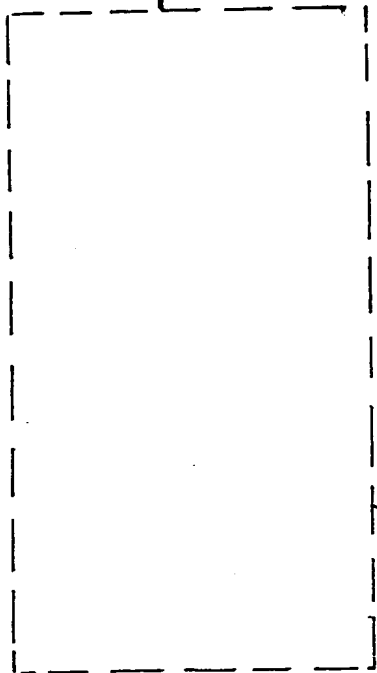
113



114

118

MULTI-STAGE AMP



10

RCVR

RCVR

...



WDM  
SPLITTER

116

FIG. 17

100TET-6E84T00T  
120

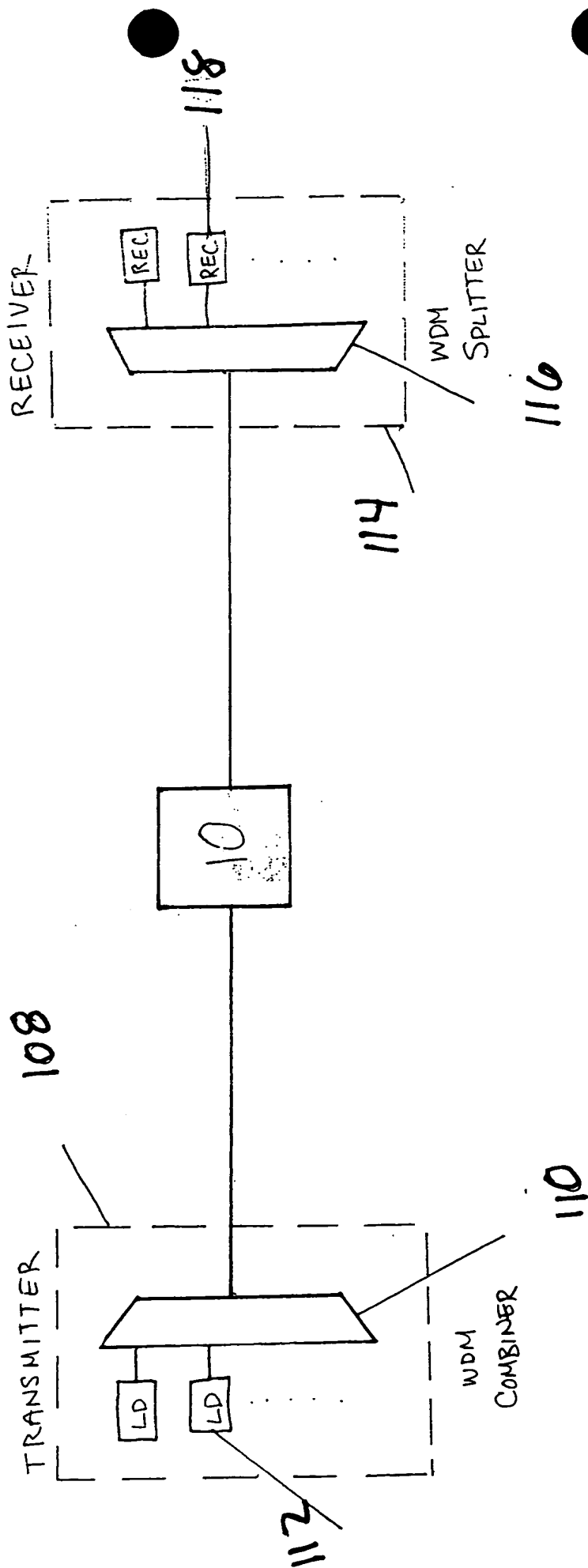


FIG. 18

FOOT "CEBHTOT  
122

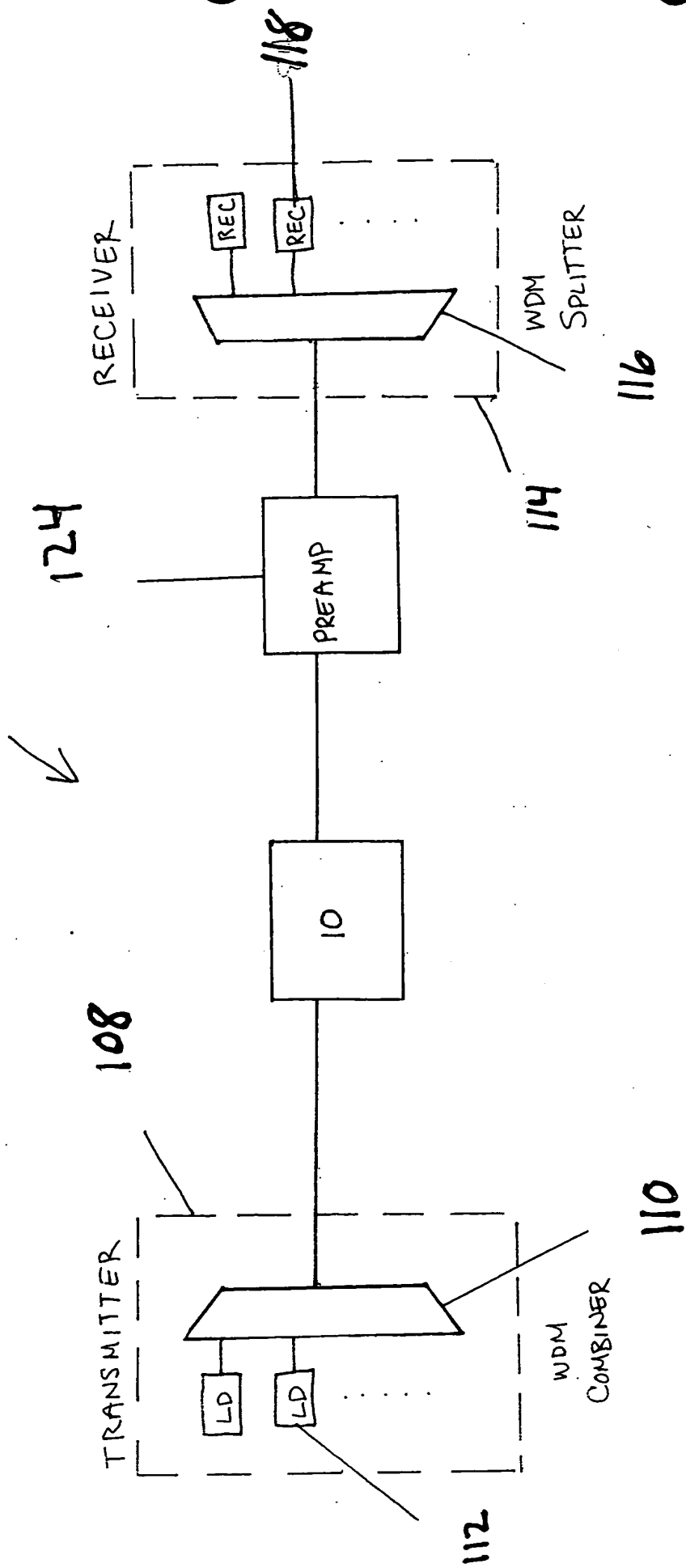


FIG. 19

FOOTPRINT 126

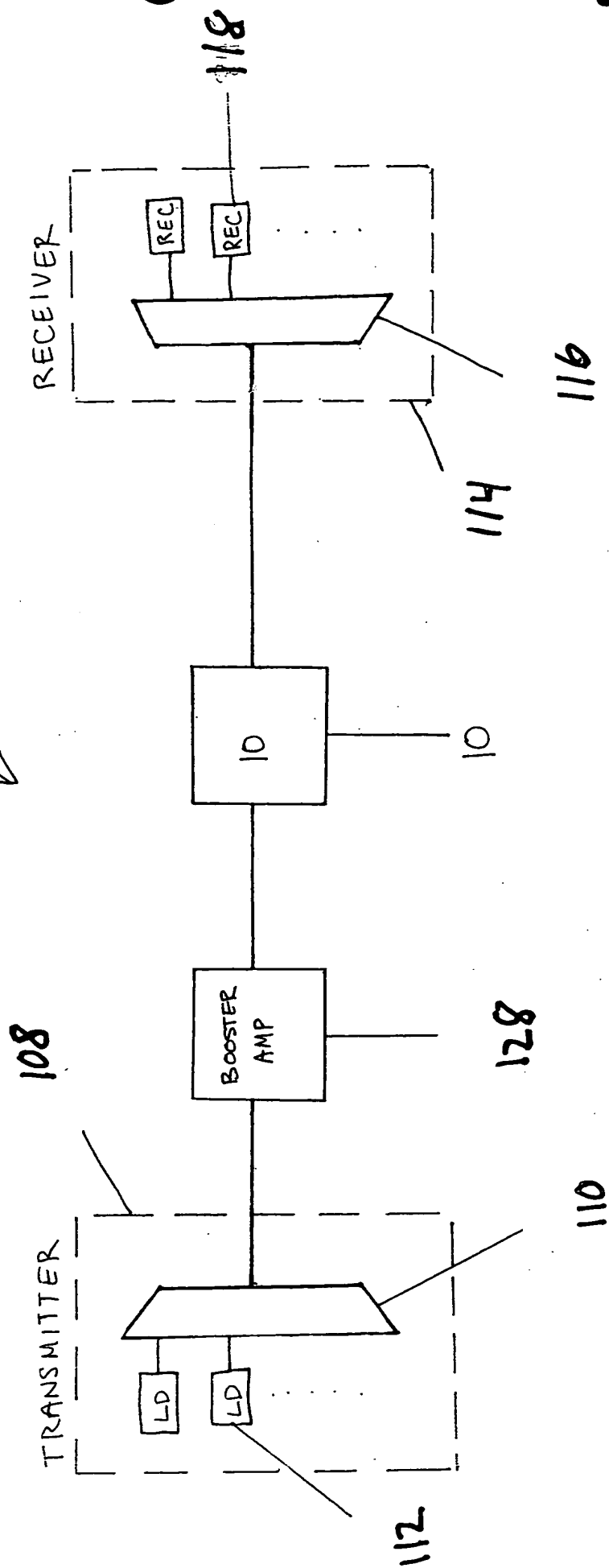


FIG. 20

FOOTPRINT

130

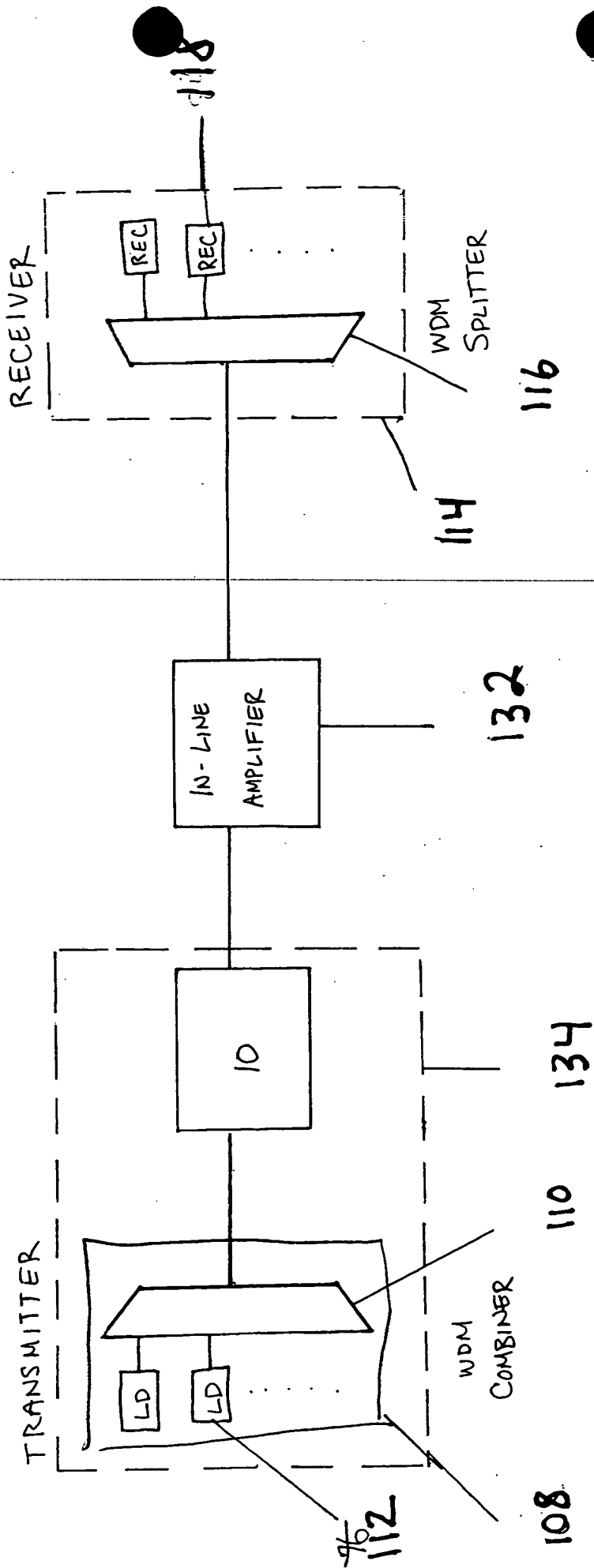


FIG. 21



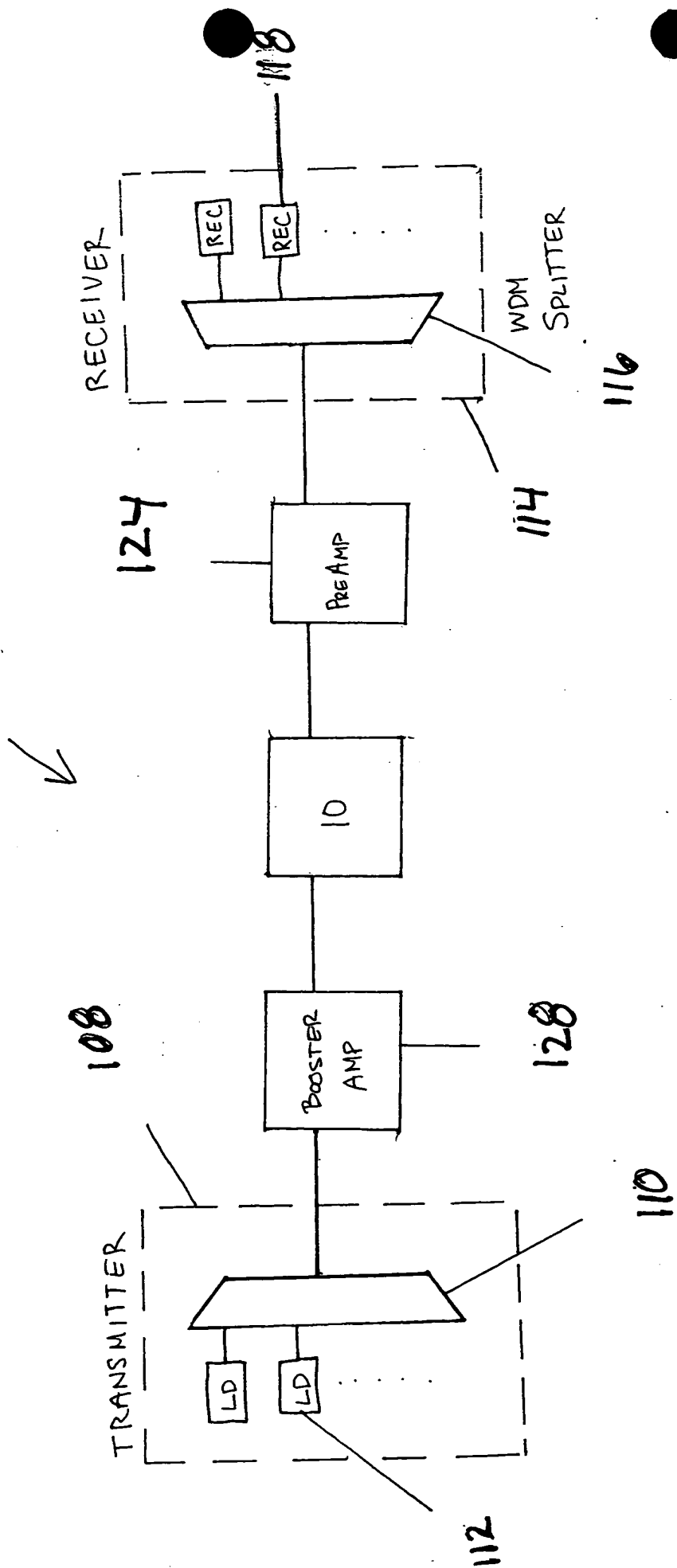


FIG. 22

200

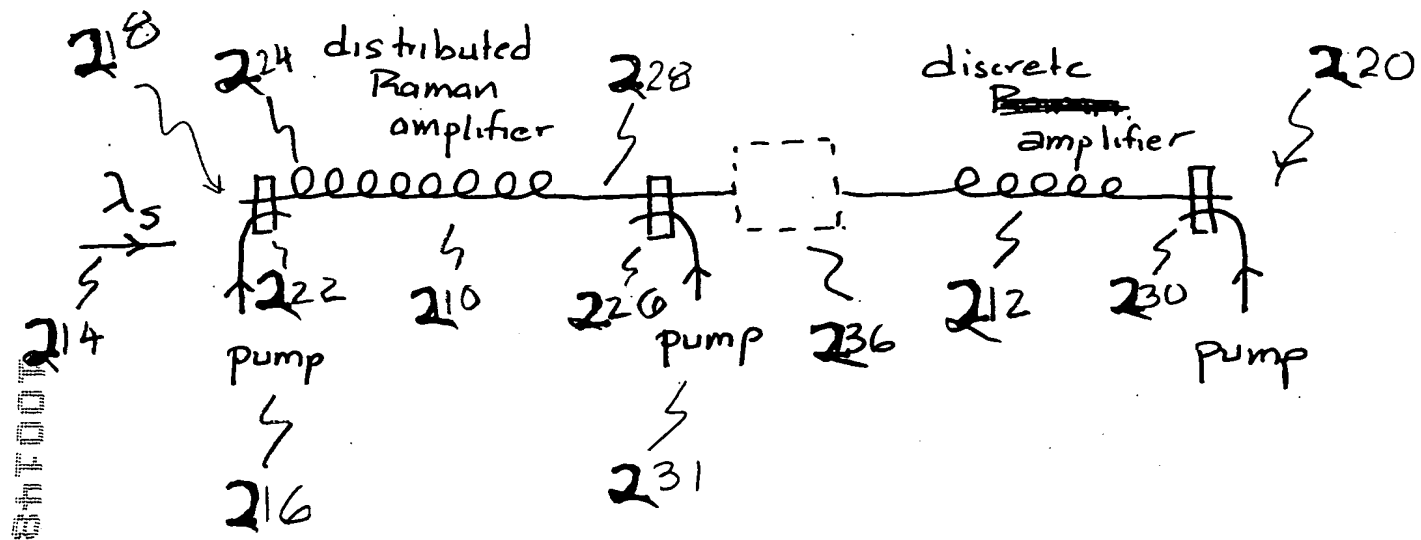


Fig 23 (a)

100-14839-121004

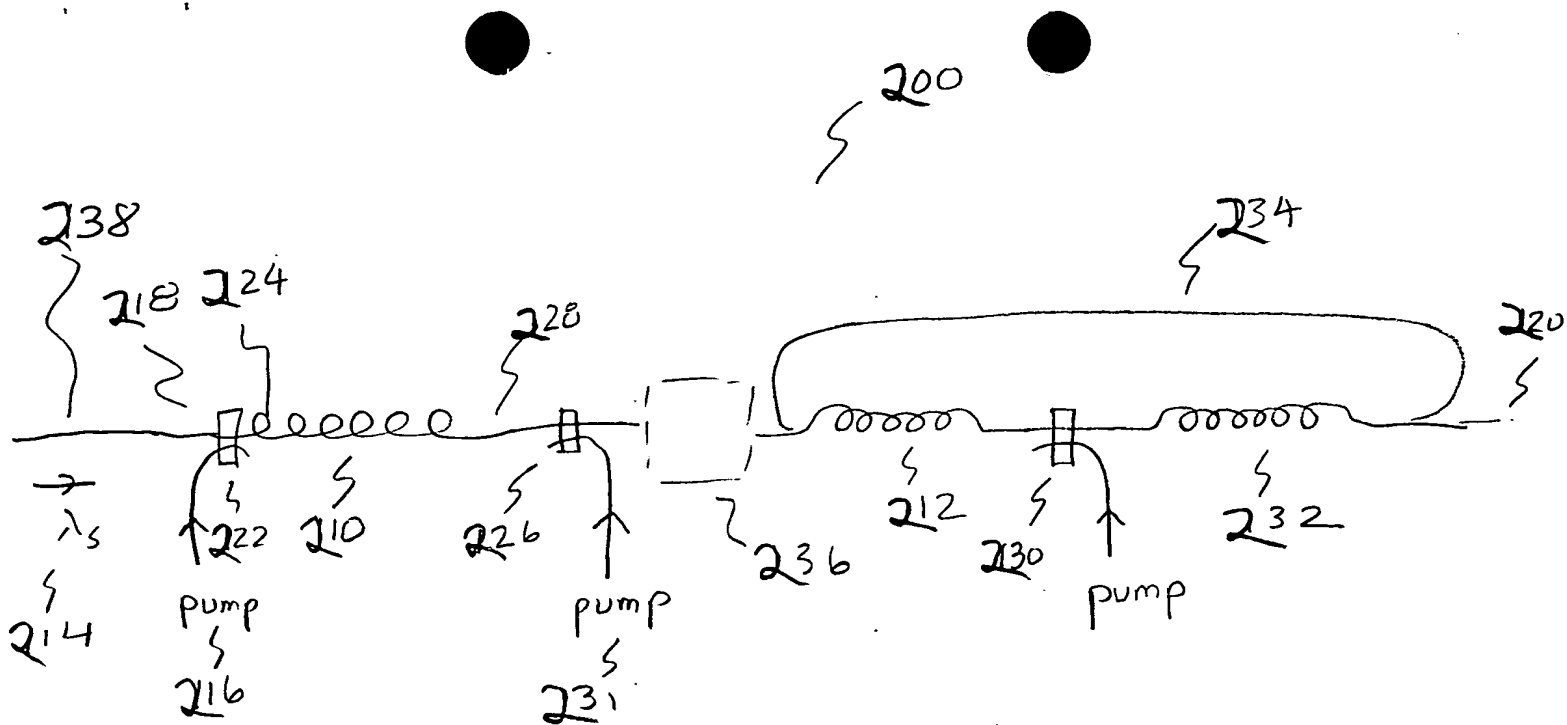


Fig 23 (b)

10014839-121001

FIG. 23 (C)

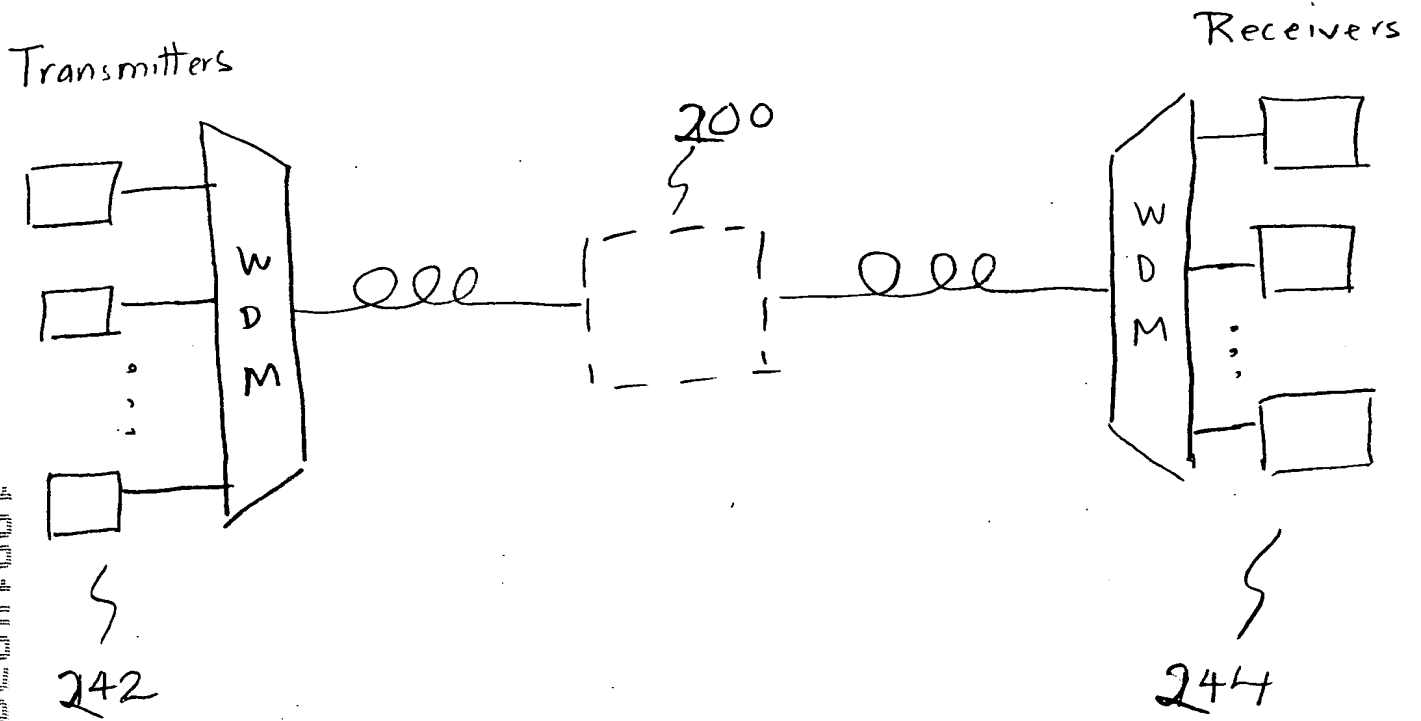


Fig 23.(c)

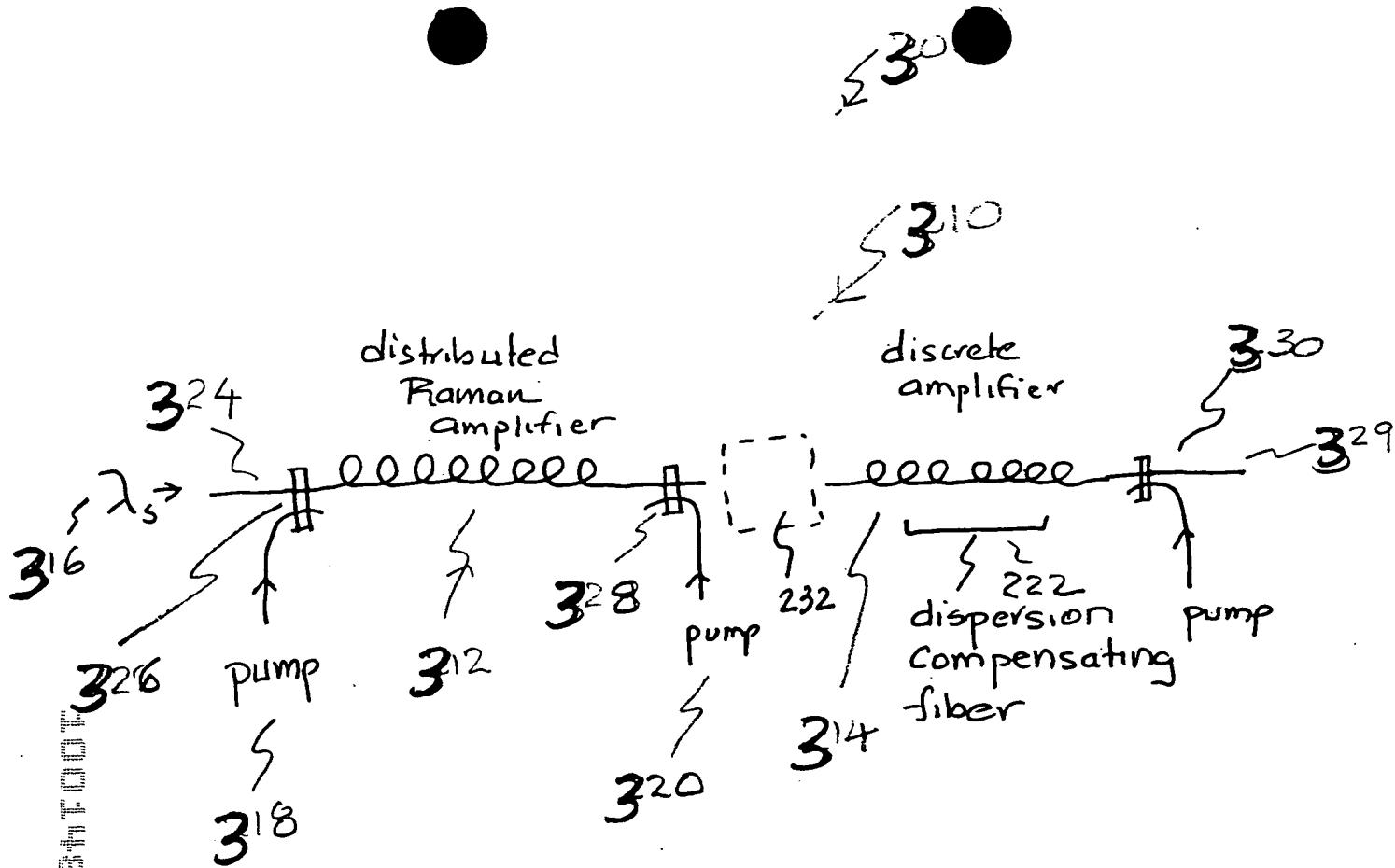


Fig 24(a)

FOOT-6684FOOT

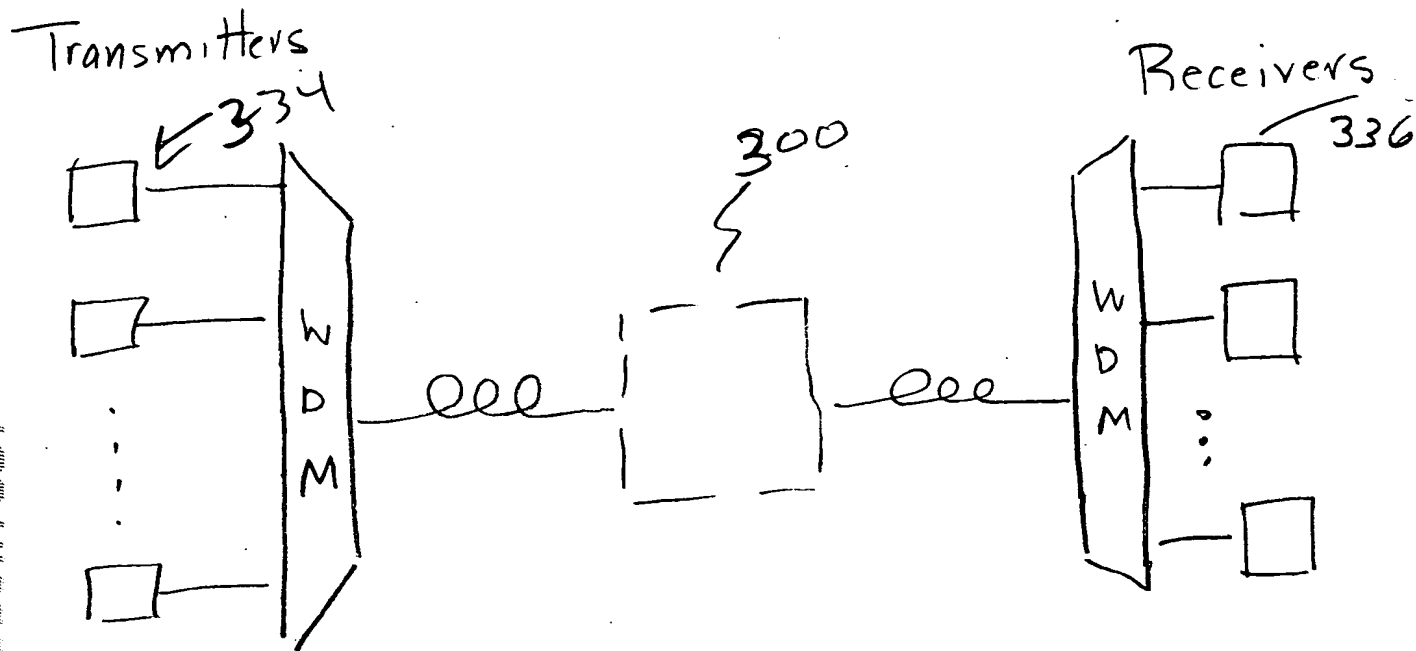


FIG. 24(b)

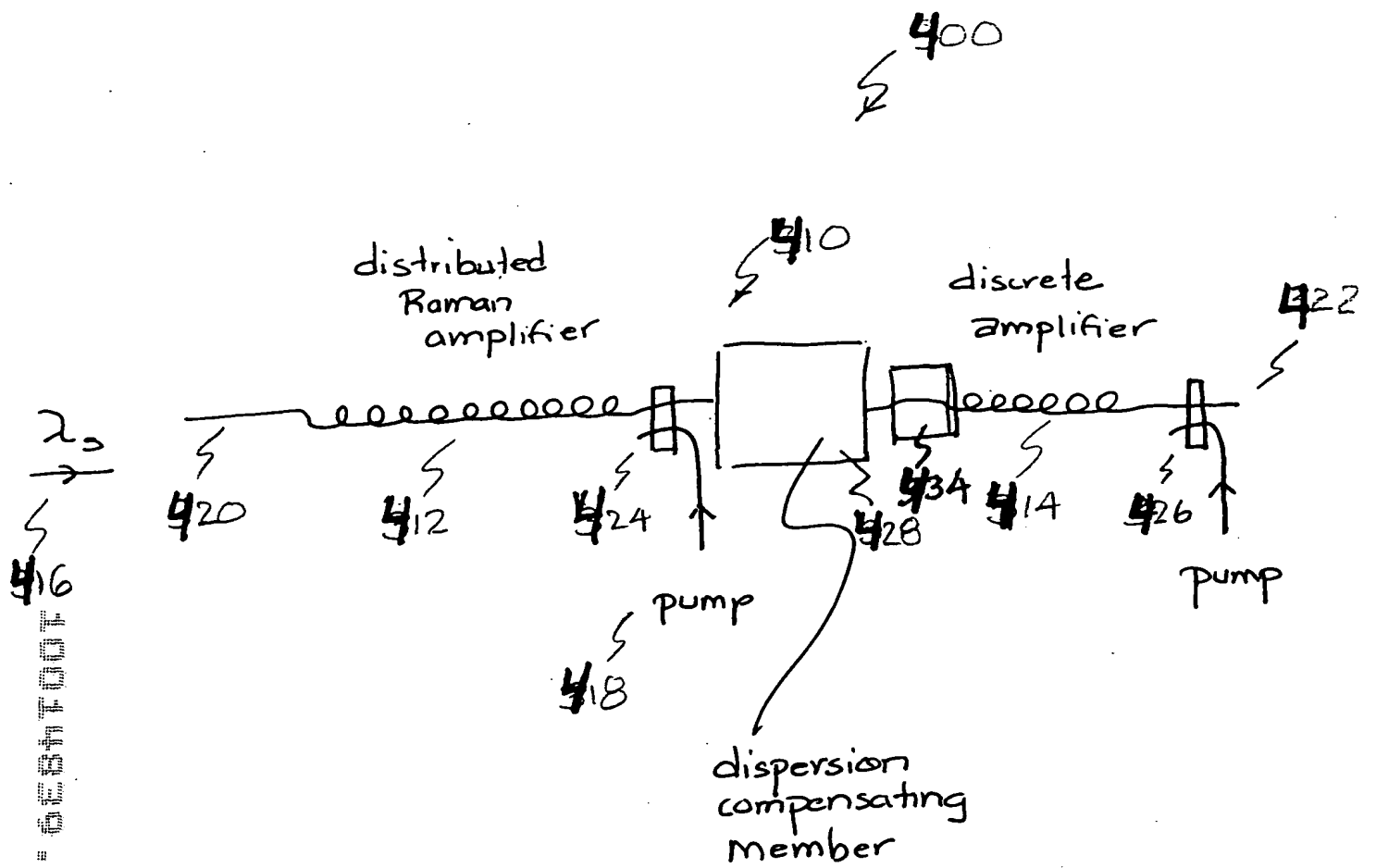


Fig 25(a)

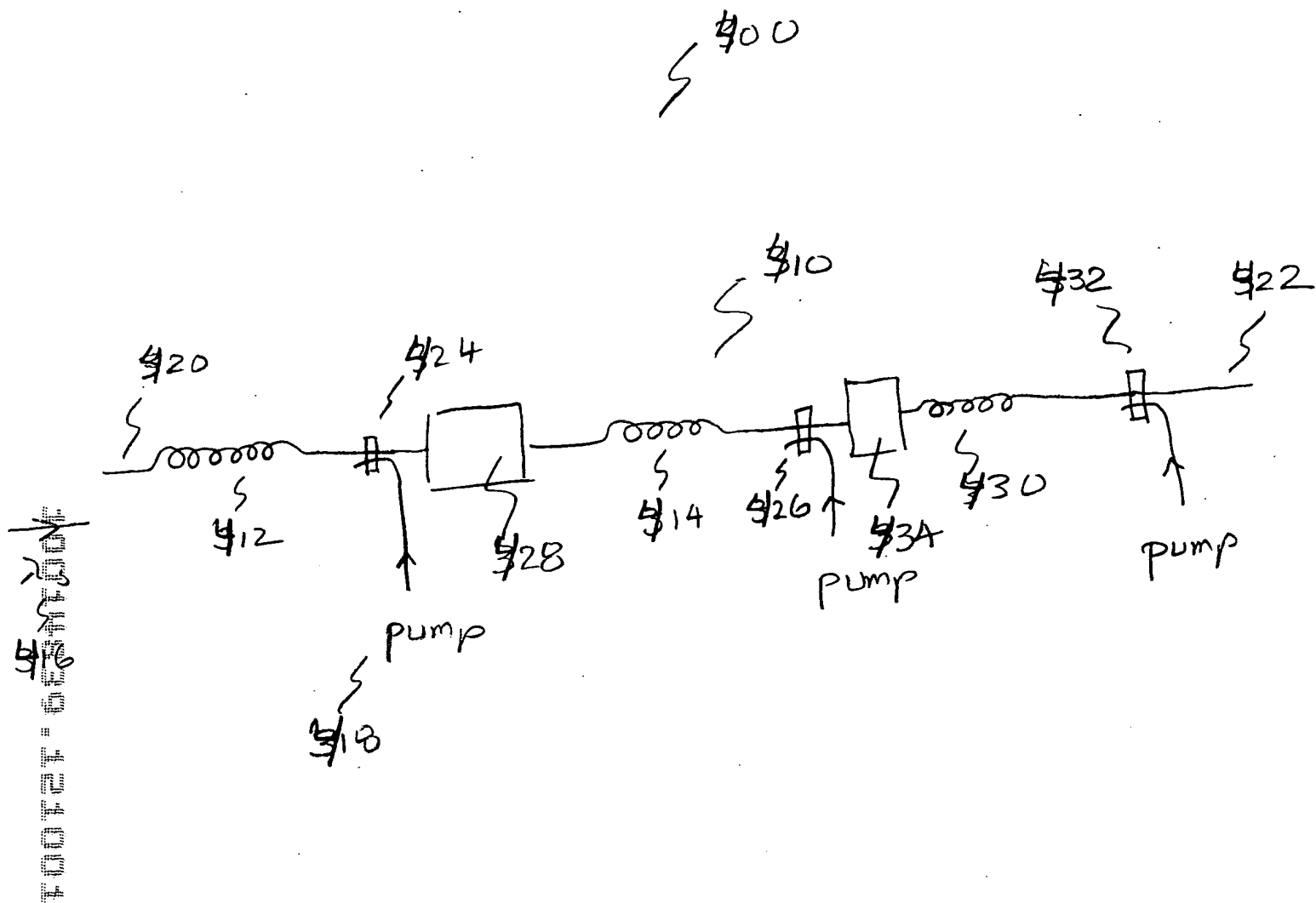


Fig. 25(b)



FOOTNOTES

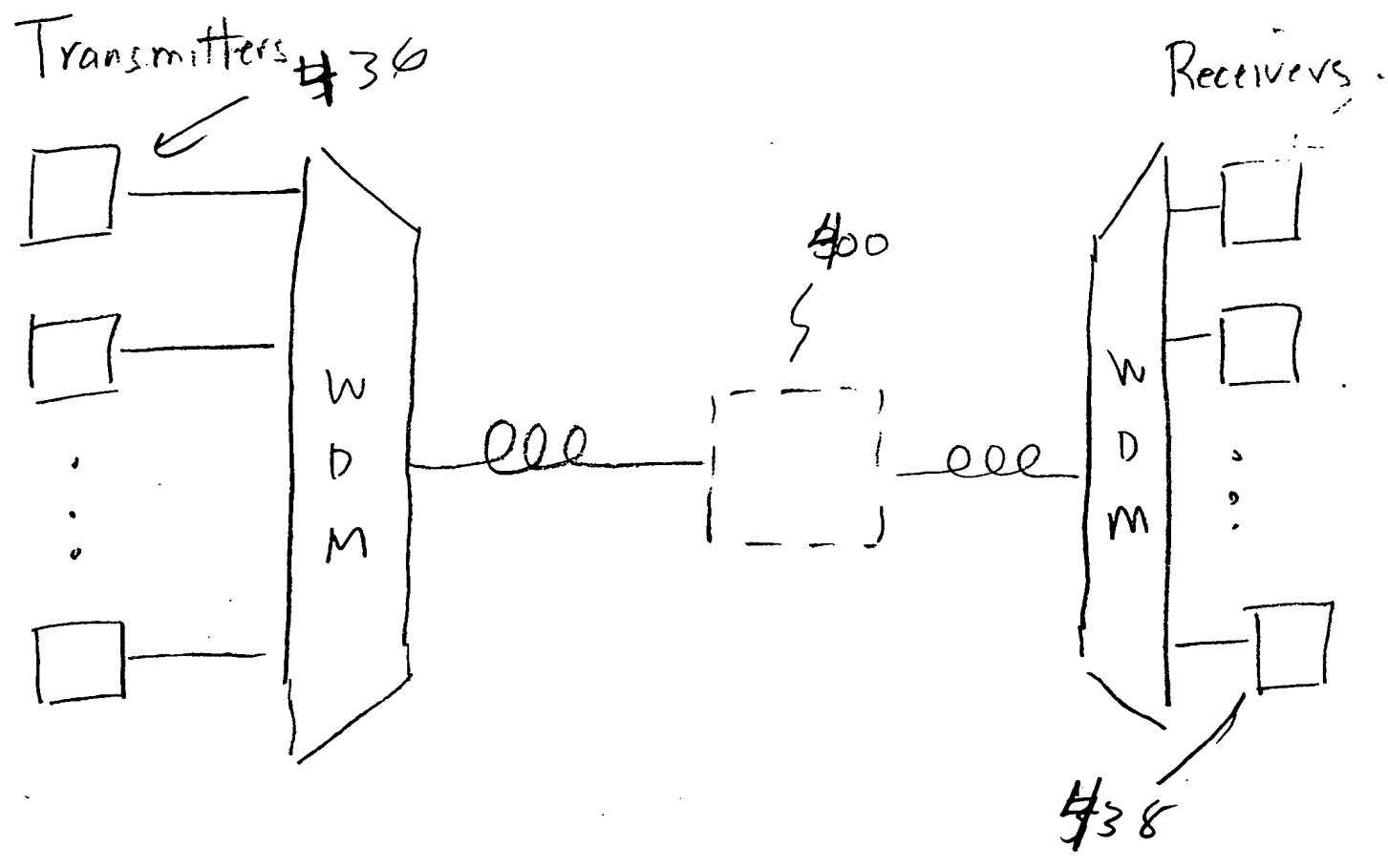


FIG 25.(C)

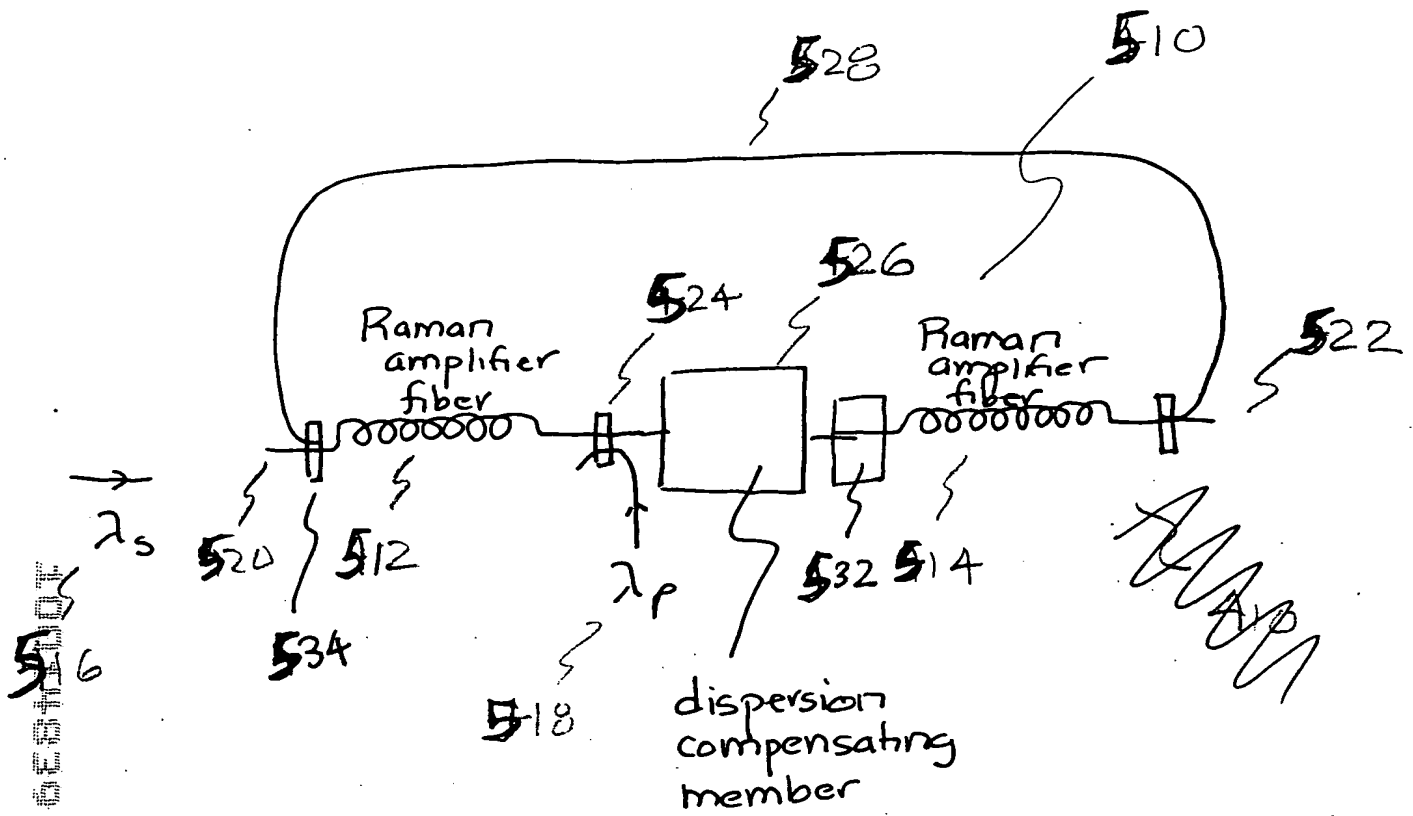


Fig 2 (a)

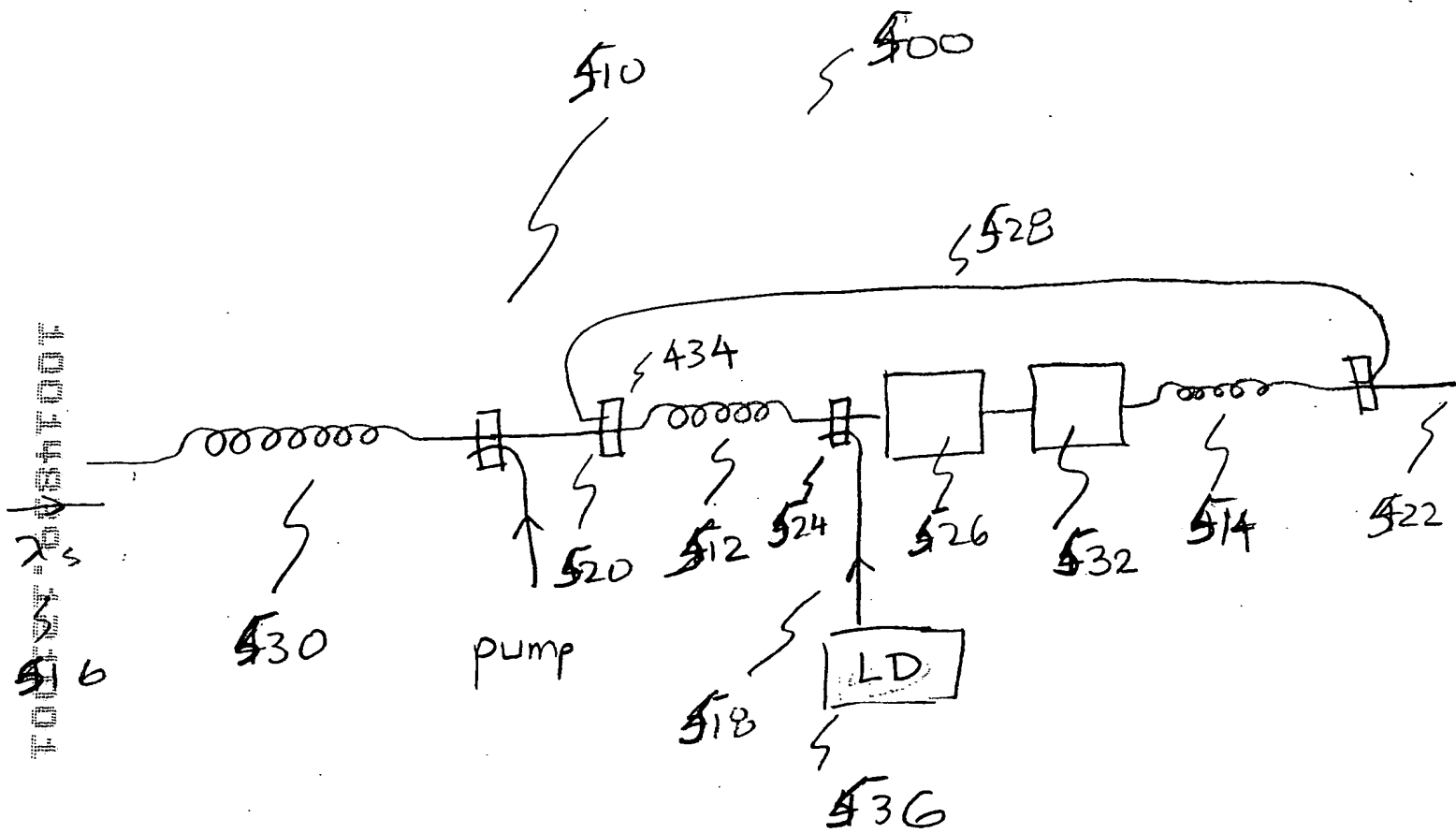


FIG 26 (b)

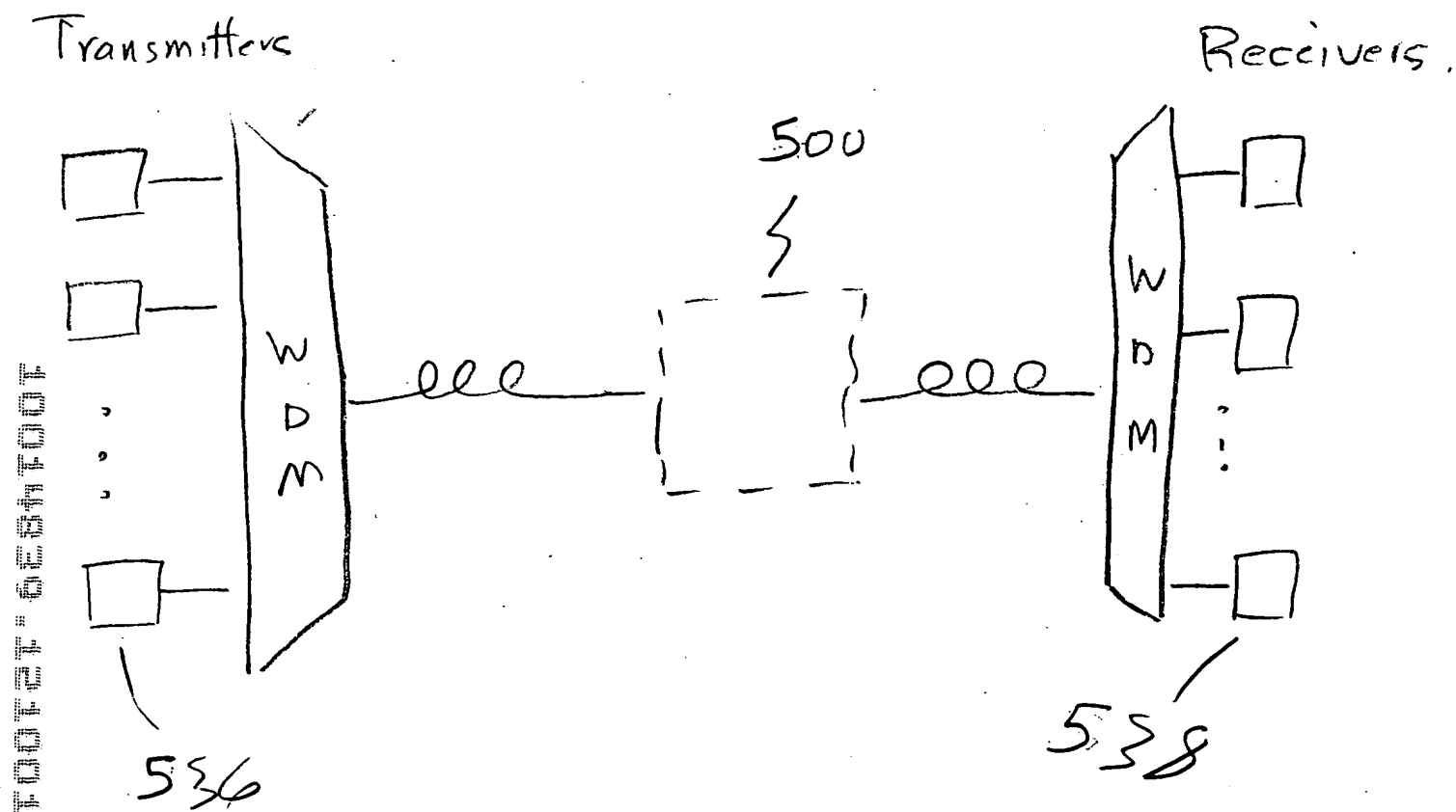


FIG. 26(c)